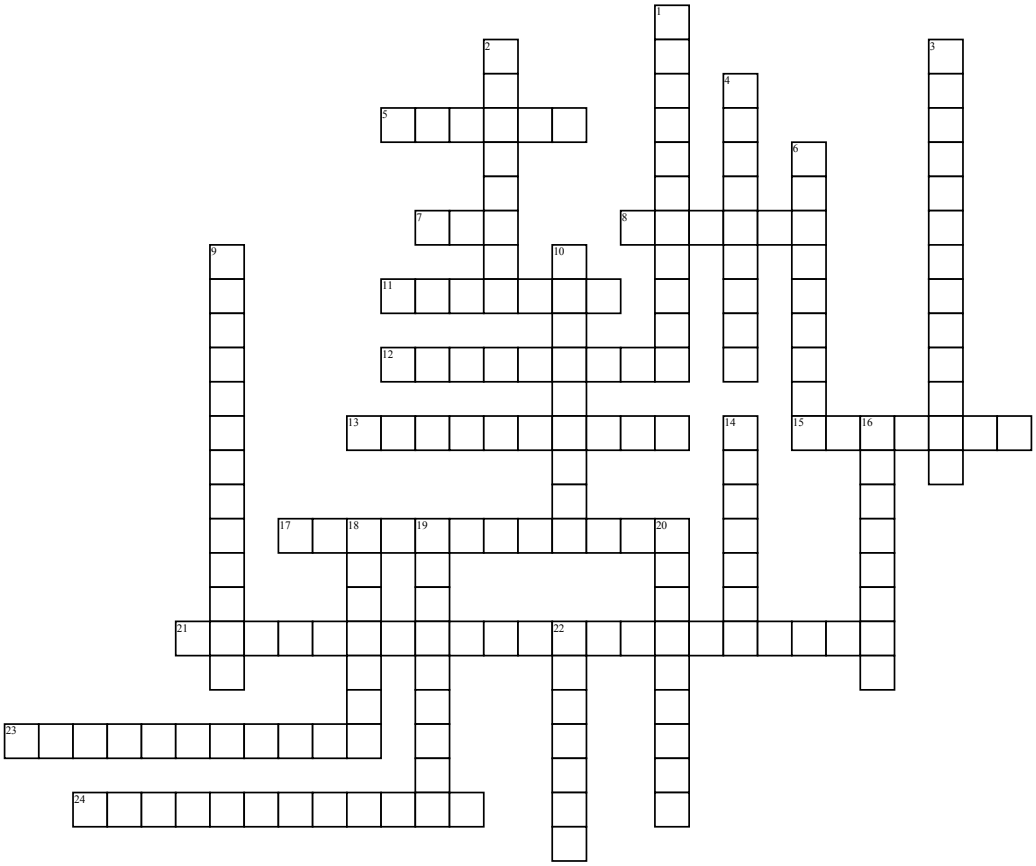
Cell Reproduction



Across

5. The phase that is compromised of mitosis and cytokinesis.

7. A type of macromolecule known as a nucleic acid.

8. Mutation or change in a cell that cause abnormal activities.

11. A mature haploid germ cell that is able to unite with another of opposite sex.

12. A complex of macromolecule found in cells, consisting of DNA, protein and RNA.

13. During this phase, the cell copies its DNA in preparation for mitosis.

15. 2 complete sets of chromosomes.

17. Any cell of a living organism other then the reproductive cells.

21. A set of one maternal and paternal chromosomes that pair up with each other inside a cell durinng meiosis.

23. During the phase the cytoplasm splits in 2 and the cell divides.

24. Process where homologous chromosomes pair up with each other and exchange different segments of their genetic material.

Down

1. The direct transfer of DNA from one bacterial cell to another bacterial cell.

2. During this phase sister chromatids seperate at the centromeres divide.

3. Failure of one or more pairs of homologous chromosomes or sister chromatids to separate normally during nuclear division.

4. The life cycle of a dividing cell.

6. 1/2 or 2 identical copies of a replicated chromosome

9. A form of asexual reproduction which is used by all prokaryotic organisms, and some eukaryotic.

10. During this stage Spindle fibers attach to the centromere of each pair of sister chromatids.

14. Division of parent cell producing 2 identical daughter cells.

16. During this phase chromatids condense into chromosomes and the nuclear envolope, or membrane, breaks down.

18. A process where one diploid eukaryotic cell divides to generate four haploid cells.

19. During this phase the chromosomes begin to uncoil and form chromatin.

20. Simple cell that can duplicate itself over and over, providing new cells that can turn into cells with a specific purpose.

22. Having a single set of unpaired chromosomes.

Word Bank

Mitosis	M Phase	Interphase	Chromatid
Cancer	Metaphase	Anaphase	Prophase
Chromatin	Haploid	Diploid	Gametes
Crossing Over	Nondisjuntion	Cell Cycle	DNA
Somatic Cells	Binary Fission	Stem Cells	Telophase
Meiosis	Cytokinesis	Homologous Chromosomes	Conjugation